H8 DC 04/24/03

Atty. Docket No. 43941 (prior docket no. 1710.21)

APR 0 7 2003 \$

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re Application of

John M. Belcea

Group Art Unit: 2661

Serial No.: 09/846,434

Examiner: Not Yet Assigned

Filed: May 2, 2001

FOR: Time Division Protocol For An Ad-Hoc,

Peer-To-Peer Radio Network Having Coordinating Channel Access To Shared Parallel Data Channels With Separate

Reservation Channel

INFORMATION DISCLOSURE STATEMENT

RECEIVED

Commissioner for Patents Washington, D.C. 20231

APR 0 8 2003

Technology Center 2600

Sir:

In accordance with 37 C.F.R. §§1.56 and 1.97-1.98, Applicants request that the Examiner consider the documents listed on the attached PTO-1449 Forms, which may be deemed material to the examination of the above-identified application. All of the documents cited on the attached PTO-1449 Forms are of record in parent application Serial No. 09/815,157, filed March 22, 2001, and therefore, copies of these items are not being provided in accordance with 37 C.F.R. 1.98(d)(2).

All documents, with the exception of French Patent FR2683326, are in English and require no statement of relevance. Regarding French Patent FR2683326, an English abstract is provided as a brief statement of relevance to the above identified Application as required under

37 C.F.R. § 1.98. Also, since the present Information Disclosure Statement is being filed prior to issuance of a first Office Action on the merits, no certification under 37 C.F.R. §§1.97 (e) or fee under 37 C.F.R. §1.17(b) is required.

The Examiner is requested to consider the attached documents in connection with the above-identified application and to return a copy of Form PTO-1449 to the Applicants with the Examiner's initials in the spaces provided.

Submission of this Information Disclosure Statement does not constitute an admission by the Applicants as to the materiality of the attached documents to the application, nor do the Applicants waive any right to challenge the validity of the documents as prior art should such action be deemed appropriate.

Respectfully submitted,

Ronald S. Grubb
Attorney for Applicant

Reg. No. 48,672

Roylance, Abrams, Berdo & Goodman, L.L.P. 1300 19th Street, N.W., Suite 600 Washington, D.C. 20036-2680 (202) 659-9076

Dated: 4pril 7, 2003



INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.	SERIAL NO.
43941	09/846,434
APPLICANT John M. Belcea	,
FILING DATE	GROUP
May 2, 2001	2661

U.S. Patent Documents

		U.S. Pat	ent Documents			
Examiner					Sub-	Filing
Initial	Patent No.	Date	Patentee	Class	class	Date
	6,359,872	03/19/2002	Mahany et al.	370	338	10/28/1997
	6,349,210	02/19/2002	Li	455	450	11/03/2000
	6,349,091	02/19/2002	Li	370	238	11/07/2000
	6,327,300	12/04/2001	Souissi et al.	375	219	10/25/1999
	6,304,556	10/16/2001	Haas	370	254	08/24/1998
	6,285,892	09/04/2001	Hulyalkar	455	574	11/24/1998
	6,275,707	08/14/2001	Reed et al.	455	456	10/08/1999
	6,249,516	06/19/2001	Brownrigg et al.	370	338	01/27/2000
	6,246,875	06/12/2001	Seazholtz et al.	455	432	03/26/1999
	6,240,294	05/29/2001	Hamilton et al.	455	456	05/30/1997
	6,223,240	04/24/2001	Odenwald et al.	710	129	01/31/2000
	6,222,463	04/24/2001	Rai	340	928	06/25/1998
	6,208,870	03/27/2001	Lorello et al.	455	466	06/01/1999
	6,192,230	02/20/2001	Van Bokhorst et al.	455	343	09/27/1993
	6,192,053	02/20/2001	Angelico et al.	370	448	09/07/1995
	6,178,337	01/23/2001	Spartz et al.	455	561	06/19/1997
	6,163,699	12/19/2000	Naor et al.	455	453	09/15/1997
	6,132,306	10/17/2000	Trompower	453	11.1	03/29/1996
	6,122,690	09/19/2000	Nannetti et al.	710	102	04/17/1998
	6,115,580	09/05/2000	Chuprun et al.	455	1	09/08/1998
	6,108,738	08/22/2000	Chambers et al.	710	113	06/10/1997
	6,078,566	06/20/2000	Kikinis	370	286	04/28/1998
	6,067,297	05/23/2000	Beach	370	389	06/28/1996
	6,067,291	05/23/2000	Kamerman et al.	370	338	09/23/1997
	6,064,626	05/16/2000	Stevens	365	233	07/31/1998
	6,052,752	04/18/2000	Kwon	710	126	11/14/1996
-	6,052,594	04/18/2000	Chuang et al.	455	450	04/30/1997
	6,047,330	04/04/2000	Stracke Jr.	709	238	01/20/1998
	6,044,062	03/28/2000	Brownrigg et al.	370	238	12/06/1996
	6,034,542	03/28/2000	Ridgeway	326	39	10/14/1997
			Arimilli et al.			
	6,029,217	02/22/2000		710	107	10/03/1994
	5,991,279	12/23/1999	Haugli et al.	370	311	12/04/1996
	5,987,033	11/16/1999	Boer et al.	370	445	09/08/1997

RECEIVED

APR 0 8 2003

Technology Center 2600



Form PTO-1449 U.S. CEPARTMENT COMMERCE PATENT AND RAPES OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO. 43941	SERIAL NO. 09/846,434
APPLICANT John M. Belcea	
FILING DATE	GROUP
May 2, 2001	2661

		U.S. Pat	ent Documents			
Examiner			_		Sub-	Filing
Initial	Patent No.	Date	Patentee	Class	class	Date
		00/40/4000	~.		1	10/10/100
	5,936,953	08/10/1999	Simmons	370	364	12/18/199
	5,909,651	06/01/1999	Chander et al.	455	466	05/05/199
	5,903,559	05/11/1999	Acharya et al.	370	355	12/20/199
	5,896,561	04/20/1999	Schrader et al.	455	67.1	12/23/199
	5,886,992	03/23/1999	Raatikainen et al.	370	410	04/15/199
	5,881,372	03/09/1999	Kruys	455	113	12/01/199
	5,881,095	03/09/1999	Cadd	375	202	05/01/199
	5,877,724	03/03/1999	Davis	342	357	03/25/199
	5,870,350	02/09/1999	Bertin et al.	365	233	05/21/199
	5,857,084	01/05/1999	Klein	395	309	10/02/199
	5,845,097	12/01/1998		395	297	06/03/199
	5,844,905	12/01/1998		370	443	07/09/199
	5,822,309	10/13/1998	Ayanoglu et al.	370	315	06/15/199
	5,809,518	09/15/1998	Lee	711	115	05/20/199
	5,805,977	09/08/1998		455	31.3	04/01/199
	5,805,842	09/08/1998		395	306	09/26/199
	5,805,593	09/08/1998		370	396	09/26/199
	5,796,741	08/18/1998		370	439	03/05/199
	5,796,732	08/18/1998		370	362 509	03/28/199
	5,794,154	08/11/1998	Bar-On et al.	455		07/26/199
	5,787,080	07/28/1998	Hulyalkar et al. Malcolm et al.	370	348	06/03/199
	5,781,540	07/14/1998	Wooley et al.	705	28	06/30/199
	5,774,876 5,745,483	04/28/1998	Nakagawa et al.	370	335	06/26/199
		02/10/1998	Ayanoglu	370	349	10/10/199
	5,717,689 5,706,428	01/06/1998	Boer et al.	395	200	03/14/199
	5,700,428	12/23/1997	Ward et al.	370	252	10/02/199
	5,696,903	12/23/1997	Mahany	395	200.58	04/29/199
	5,687,194	11/11/1997	Paneth et al.	375	283	04/29/199
	5,684,794	11/04/1997	Lopez et al.	370	337	01/25/199
	5,680,392	10/21/1997	Semaan	370	261	01/16/199
	5,652,751	07/29/1997	Sharony	370	227	03/26/199
	5,631,897	05/20/1997	Pacheco et al.	370	237	10/01/199
	5,627,976	05/06/1997	McFarland et al.	395	308	03/20/199
	5,623,495	04/22/1997	Eng et al.	370	397	06/15/199
	5,621,732	04/15/1997	Osawa	370	79	04/18/199
	5,618,045	04/08/1997	Kagan et al.	463	40	02/08/199
	5,615,212	03/25/1997	Ruszczyk et al.	370		09/11/199 EIVEI



Form PTO-1449 U.S. DEFARTIAN OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.	SERIAL NO.
43941	09/846,434
APPLICANT John M. Belcea	
FILING DATE	GROUP
May 2, 2001	2661

U.S.	ľ	'aten	t	Do	cum	ıen	ts
	_		_				

				Sub-	Filing
Patent No.	Date	Patentee	Class	class	Date
				<u> </u>	
5,572,528	11/05/1996	Shuen	370	85.13	03/20/1995
5,555,540	09/10/1996	Radke	370	16.1	02/17/1995
5,555,425	09/10/1996	Zeller et al.	395	800	03/07/1990
5,517,491	05/14/1996	Nanni et al.	370	29	05/05/1995
5,502,722	03/26/1996	Fulghum	370	69.1	08/01/1994
5,424,747	06/13/1995	Chazelas	342	70	04/09/1993
5,412,654	05/02/1995	Perkins	370	94.1	01/10/1994
5,392,450	02/21/1995	Nossen	455	12.1	01/08/1992
5,317,566	05/31/1994	Joshi	370	60	08/18/1993
5,241,542	08/31/1993	Natarajan et al.	370	95.3	08/23/1991
5,233,604	08/03/1993	Ahmadi et al.	370	60	04/28/1992
5,231,634	07/27/1993	Giles et al.	370	95.1	12/18/1991
5,068,916	11/26/1991	Harrison et al.	455	39	10/29/1990
5,034,961	07/23/1991	Adams	375	130	06/03/1988
4,910,521	03/20/1990	Mellon	342	45	08/03/1931
4,747,130	05/24/1988	Но	379	269	12/17/1985
4,742,357	05/03/1988	Rackley	342	457	09/17/1986
4,736,371	04/05/1988	Tejima et al.	370	95	12/29/1986
4,617,656	10/14/1986	Kobayashi et al.	370	74	01/02/1986
4,494,192	01/15/1985	Lew et al.	364	200	07/21/1982

Published U.S. Patent Application

 		ublished C.L	. I atcht Application			
					Sub-	Filing
	Pub. No.	Pub. Date	Patentee	Class	class	Date
	2001/0053699	12/20/2001	McCrady et al.	455	513	02/06/2001

Foreign Patent Documents or Foreign Patent Applications

 Document	Publication	Country or		Sub-	Trans	lation
No.	Date	Patent Office	Class	class	Yes	No
, i						
EP 0513841 A2	11/19/1992	EPO			X	
EP 0924890 A2	06/23/1999	EPO			X	
EP 0627827 A2	12/07/1994	EPO			X	
WO 9912302	03/11/1999	WIPO			X	
WO 9839936	09/11/1998	WIPO			X	

RECEIVER

APR 0 8 2003

Technology Center 2:

APR 0 7 2003 4

Form PTO-1449 S. DEPARTING TO F COMMERCE PATEN TO FORM ARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO. 43941	SERIAL NO. 09/846,434
APPLICANT John M. Belcea	
FILING DATE	GROUP
May 2, 2001	2661

	Document	Publication	Country or	ł	Sub-	Translation	
	No.	Date	Patent Office	Class	class	Yes	No
	WO 9724005	07/03/1997	WIPO	-		$\frac{1}{x}$	├-
	WO 9608884	03/21/1996	WIPO		<u> </u>	$\frac{1}{X}$	
 -	WO 0235253	05/02/2002	WIPO			X	
-	WO 0137483	05/25/2001	WIPO			X	
	WO 0137482	05/25/2001	WIPO			X	
	WO 0137481	05/25/2001	WIPO			X	
	WO 0135567	05/17/2001	WIPO			X	Ī
	WO 0133770	05/10/2001	WIPO			X	
	WO 0110154	02/08/2001	WIPO			X	
	WO 0034932	06/15/2000	WIPO			X	
	CA 2132180	03/16/1996	Canada			X	
	FR 2683326	07/05/1993	France	T T			x

Other Documents (including Author, Title, Date, Pertinent Pages, etc.

No.	Author, Title, Date, Place (e.g. Journal) of Publication Wong et al., "Soft Handoffs in CDMA Mobile Systems", December 1997, IEEE
	Wong et al. "Soft Handoffs in CDMA Mobile Systems" December 1997 IEEE
	Wong et al. "Soft Handoffs in CDMA Mobile Systems" December 1997 IEEE
	Personal Communications
	Wong et al., "A Pattern Recognition System for Handoff Algorithms", July 2000,
	IEEE Journal on Selected Areas in Communications, vol. 18, no. 7
	Andras G. Valko, "Cellular IP: A New Approach to Internet Host Mobility", January
	1999, ACM Computer Communication Review
	Richard North, Dale Bryan and Dennis Baker, "Wireless Networked Radios:
	Comparison of Military, Commercial, and R&D Protocols", February 28-March 3,
	1999, 2 nd Annual UCSD Conference on Wireless Communications, San Diego CA
	Benjamin B. Peterson, Chris Kmiecik, Richard Hartnett, Patrick M. Thompson, Jose
	Mendoza and Hung Nguyen, "Spread Spectrum Indoor Geolocation", August 1998, Navigation: Journal of the Institute of Navigation, vol. 45, no. 2, summer 1998

^{*}EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw Line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

APR 0 8 2003

Technology Center 26:

reu/3	CF PA	TE	STH FIM	AN OR	O P MAT	UBI 70A		TIONS F	OR RE	43941		SERIAL INC 19/846		4
C24 34 34			81	ΑΠ	EME	MT		may)		John M. Be		· •		
HEFER	ENCE	DE	EKON	W)	ПОН	<u> </u>	·	U.S. P.	ATENT	FILING DATE 5/2/200 DOCUMENTS	(GROUP 2	661	
EXMINER BETIVL			000	we	NT KU	MOCR	<u> </u>	DATE		KUE	arsz .	SUSCLUSS		O DATE
	<u> </u>	5	9	4	3	3 2	2	8/99	Mayo	or,et al.	370	280	F APPS	UHA
	AS AC		$\vdash \vdash$	4	4	1	1					1200		
	10	-	\vdash	+		╀	╀-	 	-			1		
	Æ		\vdash	\dashv	╅	+	╄	 	 					
	Æ			_	+	十	+		 			<u> </u>		
	М		口	I		I			1			- 		
	ᄲ		$\vdash \downarrow$	4	_	1	$oxed{\Box}$					- 		~
	N N		$\vdash \vdash$	+	+	+	╀_	 				1	-	 -
	ж		\vdash	+		╁	╁	 	╂					
							FO	REIGN	PATE	NT DOCUMENT			<u> </u>	
										TOCOMEN!	<u> </u>			
			WX.	æ	il Hi	33 1		CAJE	1	COLMINY	ara	SECUES	TRAXE	MIC
	Æ			T	\top	Т	Г		-	•			YES	Ю
	Ж		+	+	╅	╁	+							
	AX		+	╁	╁	╀	-			•		· .		1
	Ю		╅	╁	+	╀	\vdash							
	IP.	\dashv	\dashv	+	- -	+	-							
						<u> </u>			<u> </u>	•				十
	НТО	EH			ARI	[(lı	ncli	A galbu	uthor	Title, Date, Pe	rtinent P	ages, Etc	.)	٠
	AR	4		, K	eν:	i e w	<i>F</i> 0	f Curr	ent	Routing Prote	cols f	or Ad-H	OC M	iobi
		7	VI T UTB	el ^	<u>esi</u>	<u></u>	let	works"	Ro	ver, et al.,	Univ.	of Cali	f?.	
-	A		- 111		Dyl	141	ITC	sourc	e Ko	uting Protoc	ol for	Mobile	Ad T	юс
		-	ret	F	MAI	VET	· .W	orking	Gro	up;Josh Brock	i, et a	1., 12/	98.	
	AT	_	'Ad	h	00	Or	ı-D	emand	Dist	ance Vector	Routing	draft-	ietf	-ma
		ŀ	aoa	٧-	UB.	.tx	(t''	, Mobi	le A	Hoc Networ	KING WO	rk Inv-G	10up	,
ĐXMI	NER		I	اخب		ـدــ	<u>li.</u>	rerki	ns,	DATE CONSIDE		01.		

IPEP 609; Draw line through communication to applicant.

(Information Disclosure Statement—Section 9 PTO-1449 (Modified) [6-1]—RECEIVEF

APR 0 8 2003;

LUST O	CF PA	TEN	TS A	WD P	, 1101	JCA	TICKS F	DR.	ATTY, DOCKET 1 43941	NO.	8	ERIAL NO 9/840). 6 43	 34
2003	JUAN	181	AT8	RMAT TEME	TIVE	מס	SCLOSUF	Æ	АРРЦСАНТ ЈОН	N Й.			<u></u>	-
FULL			•				y)		FILING DATE 5/2/2001		a	ROUP	2661	,
WEL FHE	NCE	asd	KON	ATION	<u> </u>		U.S. P/	TENT	DOCUMENT8					
EXAMER BRIVE				EDIT NU	MOER		DATE		Kue				RUK	
	<u> </u>		$oxed{\Box}$		T	Π		_		1 4	138	ENDOTES	FARR	OPPL
	M	Ц		\Box		Γ		 		-		 		<u> </u>
	K	1	4	\coprod	$oldsymbol{\perp}$			_				 	<u> </u>	
	Ю	\sqcup	4	11		$oxed{\Box}$						 	 	
	Æ	├┼	4	┼-┼-	4_	L				+-			 	
	~	- -	+	╂╼╂╴	+-	╀-	<u> </u>		•					
	~	-	+	╁┼	+-	┼-								_
	N	\vdash	+	++	+	 -	 							
	N		\top	††	╁	╁								
	Ж					\vdash		 				<u> </u>		
					Į	FO	REIGN	ATE	NT DOCUMENTS	 S		<u> </u>	<u></u>	
			XX	en kj			CACTE		COLNIRY	a	152	220,425	TRAKS	UTC
	R	T	T	П		Н						amas	YES	H
	Ж		+	\sqcap	+	H			•	-				
	, KA		T	\prod		П								L
	Ю	1	+		1	Н				-				
	R	+	+	╁┼	+-	Н			·					Γ
	ОТН	EP.		<u> </u>		Ц	<u></u>			1				Γ
	JIN	cn.		AH	(In	ıclı	iding A	uthor	, Tille, Date, Per	tinont	Pa	ges, Etc	.)	<u></u>
j	M	112	Opt	imi	zed	· Ł	ink St	ate i	Routing 'Proto	00111	• : 10	CTE MA	ATTOOR	Wa
		G	rou	p,	Ph	il.	ippe J	acqu	et, et al, Se	ptem	ber	2, 20	01-	
	1													
į	*								uting for Mob					KS
		-₩	ANE	T_W	ork	in	g Grou	p. Da	avid B. Johns	on,	et	val	Ma	rc
.]	AT	+		· · · · · · · · · · · · · · · · · · ·	·						··			
l l	- 1	- 1							•					
EXAMIN	 Ж.Б								DATE CONSIDER					

MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Information Disclosure Statement—Section 9 PTO-1449 (Modified) [6-1]—

RECEIVE

APR 0 8 2003

PORM PTO-1449 (Modified

1.

ATTY, DOCY 43941

SERIAL HO. 09/846,434

APPLICANT

John M. Belcea

FIUNG DATE 5/2/2001 GROUP 2661

CE DESIGNATION

LIST OF PATENTS AND PUBLICATIONS FOR

BTATEMENT

THE PROPERTY OF THE PARTY BUTTON DESCRIPTION DESCRIPTI

veral sheets if necessary)

U.S. PATENT DOCUMENTS

ETHER KUAT			Ø	111	ΣΤ)	a M	XER		DATE	₩ €	ดาส	8000003	FLHO CATE
	W	5	5	3	3	0	2	6	7/96	Ahmadi, et al.	370	94	
	K	5	6	4	4	5	7	6	7/97	Bauchot, et al.	370	437	
<u></u>	K	5	7	4	8	6	2	4	5/98	Kondo	370	347	
	ਲ	5	7	8	7	0	7	6	7/98	Anderson, et al.	370	294	
	Æ	5	9	8_	7	0	1	1	11/99	Toh	370	331	
	¥	6	0	1	6	3	1	1	1/00	Gilbert, et al.	370	280	
	Ю	6	0	2	8:	8	5	3	2/00	Haartsen	370	338	
	써	6	0	2	9	0	7	4	2/00	Irvin	455	571	
	H	6	0	5	8	1	0	6	5/00	Cudak, et al.	370	313	
· · · · · · · · · · · · · · · · · · ·	'n	6	0	8	8	3	3	7	7/00	Eastmond, et al.	370	280	
	W	6	<u> lo</u>	وا	7	7	0	4	8/00	Jackson, et al.	370	280	

FOREIGH PATENT DOCUMENTS

	RELUMETOD .		\mathfrak{m}	ئنلا	: M	H	H		CAJE	COLATINY CLA	6 0	27.T3	HOLLESKEL		
-				, :	: ''				, 500	www.iiii " ua	α	suvn)	YES	K	
	L.	ŀ	1 1												
•	, KH														
	Ж														
	Ю					1									
	R													-	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	H		"Toplogy Control of Multihop Wireless Networks Adjustment", by Ram Ramanathan and Regina Ro	s using Transmit Power sales—Hain: BBN Techn—
-		_	ologies (Division of GTE), Cambridge, Mass. 199	97.
	14		"Reversing the Collision-Avoidance Handshake by J.J. Garcia-Luna-Aceves and Asimmakis Tzama	in Wireless Networks" loukas: Baskin School
			of Engineeering, University of Calofornia, San	ta Cruz, 1997
E	1,7		"Self-Organizing, Self-Healing Wireless Network Elliot and Bob Helle; BBN Technologies, Cambro	ks", by Chip
-			IEEE, 2000	APR 0 8 2003

PORM	PTO-	144	رب) و	lod	il)4c	r ()		2.	ATTY, DOCY		SF	PIWL HO.	<u> </u>	
' ust	CF PA	TEI	កទ	AN	10 1	PUE	зцк	ZΑ.	UCHR EC	ar.	43941		or.	1/846,4	134	
IPE			81	λT	EM	EN	Ţ		CLOSUR	E	APPLICATT John M. B	elcea				
0 7 2003	(Use	94 Y	*CEL	l sh	** t	a H	Dec	>++	•• (Y)	• `	FILING DATE 5/2/2001		QF	HOUP 2	661	
DEMARKET	EHCE	DE	SX3.	XV.	no	H			U.S. PA	TENT	DOCUMENTS		ــــــ	<u>-</u>		
FORMULAGE								_		<u> </u>						
KIM	<u> </u>		Ø	JLE.	XT)	alle:	ER		DATE		WLE	a	ra	emma	FLHOO F APPRO	
	<u> </u>	6	1	0	4	7	1	2	8/00	Robe	ert, et al.	370	,	389		
	М	6	1	0	8	3	1	.6	8/00	Agra	awal, etal.	370)	311		
•) K	6	1	3	0	8	8	1	10/00	Sti	ller, et al.	370)	238		
	KE GH	-	-	-				_	ļ							
	HF .	-	-	-	-	-	-	-						·		
	М	十	-	 	-	-	-						·			
	H.	T	1			1	 	-		1-				 	 	
	H						1	1	 	1						
	N									1					 	· · · · · · · · · · · · · · · · · · ·
-	K	1		_	<u> </u>											
						•	<u> </u>	FO	REIGH	PAT	ENT DOCUMEN	TS				
			· M	ייני ייני	ה זור:	H	771		CAJE		Marry				TRAKE	KOTA
		1	_			1		·	LAIC		OUNTRY		IIZ	SECTO	YES	CH
	I K	-	1	_	_	_	_						•			
	H	1_	1					1					R	ECEIV	ED	
•	H	1_		L									А	FR 0.8	2003	
-	W	_									:		Techn	dogy Cen	ter 20	
-	R														1	
	OT	HE	R	•	A	RT	([nc	luding A	hutho	or, Title, Date, P	orline	nt Pa	Gos. Fi	C.)	J
			"	A I	Per	for	maı	nce	Compari	son o	of Multi-Hop Wire	eless i	OH DA	- Netwrk		
•	AA		110	uL.	riid	PI	<u>.00</u>	∞	ors, by	Josh	Broch, et al., (Carnea:	ie Mei	llon Uni	versit	У,
		+	1			1100	- 01	T - E.	CONTTO CO	mpuc:	of the Fourth Aing and Networki	ng; 19 9	18			
	II.	-	1"0	JSAI	P:A	Ur	nify	yin	g Dynami	ic Dis	stributed Multic	hannel	TDMA	Slot As	signme	nt
			P	, rot	toc	ol"	', l	рy	C. David	i Your	ng,Rockwell Inte	rnatio	nal,	Richards	on,Tex	as
	II.		"	Net	t T	hrc	ougi	npu	t with]	EEE 8	302.11 Wireless	LANs'''	, by	Ad Kamer	man an	d
			G	uide	o A	ber	1,]	Luc	ent Tech	1., Ni	leuwegein,The Ne	therla	nds		· · · · · · · · · · · · · · · · · · ·	•
EXU	IINER			 ,-			-		 		DATE COLIDI					

sheet 8 of 11

•	PORM		•						3.		A	TTY. DOCY	.	Ì	£1	TAL HO.		
	LEST	C LVIT	LEHLE	KA :	O P	UBI	ПC	ATI	CHB FO	ล		43941			09/	1846,4	34	
1	PE			TATE				HSC	LOSURE	Ξ	٨	PPLICAIT						
)	\chi_{\chi_{\chi}}	\U	•						and		Jo	hn M. Bel	cea					
,	1 200	<u> </u>							-	•	. F	TUNG DATE 5/2/200			Q A	OUP 20	661	
W &	THATE	ENCE I	DESIG	ראאו	nch	1			U.S. PA	TEXT	DOX	בואפאומ						
	DUNHER	•									-						PLHO	שדני
•	KUAT		<u> </u>		XT XL	708	R	_ .	DATE			KATE		α	হে	anna	F APPRO	
. '		М		$\downarrow \downarrow \downarrow$	4	_ _	1	1			·				·			
		М	- -	$\left \cdot \right $	_	_ _	1	_										
	•	K			_		_ _	1										
•	• •	Ю	 	+		-	4	_										·
•		Æ	 -	╁┤	\vdash		4	4		ļ								
	· · · · · ·	B	╂═╂╧	╂╾┨	-		+	-		ļ		•		<u> </u>				
٠.		ᄲ		+-	\vdash	-	\dashv	4		<u> </u>	-			· 		-	<u> </u>	
		H	 	╂╾┦	H	-	\dashv	-									<u> </u>	
	•	l N		+-		-	\dashv											
		ж	1-1-	+			\dashv									-	·	
					<u>ا بــا</u>	•		:O	SEIGNI	D A T1	LIT	DOCUME					J	
							<u>.</u>	<u> </u>	121011	1.	-161	DOCOM	-115				,	
	•		α	001±	enk	ua	R .		CATE	١	•	COLATRY		a	22	SECTE	DX4T TX	
: .		H	IT	T	П		1									ECEI	NES .	(K)
	•	H		1									· ·	-	•		1	
		Ж		1								· · · · · · · · · · · · · · · · · · ·	·			PR 0 8 plogy Cer		-
		Ю		T										-		plogy cer	1101 2	
		K		+										-	·		-	-
		OTI	HER	•	AF	RT	(In	ıclı	ıdina A	utho	r T	Ille, Date	Doetle		D.			
		<u> </u>	"	Tra	nsm	iss	ior	ı–E	fficient	Rou	ting	in Wirel	ess Net	CWO	cks U	sing Lir	k-Stat	· ·
		HA.																
				hive	ere.	ity	<u>م</u>	آءَ	aliforni	ia, s	a-Du anta	na-Aceves -Cruz; 199	, Baski	ın s	Schoo.	L of Eng	jineeri	ing,
		H.	a	nd I	Ewei	e-A rto	n I	. I	ed Mesh Madruga,	Prot Bas	ocol kin	", by J.J. School of	Garci Engine	la-I eri	iuna-i ng, t	Aceves Jniversi	ty	
			1 1						Santa (•				
			hu	ு Opi	tim med	iza ia	tic Pac	on o	of an A	lapti	ve I	ink Contro	ol Prot	toa	ol fo	r	<u> </u>	
		TI.							- wauio	MH W	$\neg r r r$	ink Controlly, by J.R. Div.; Ft.W.				al.;		
		<u> </u>							£ =7-				ayne, 1	44 j	177/			•
	EXM	INSER.										DATE COL	ICIOCO					

sheet 9 of 11

	LEST (PTO-1	EHTS	.	10 1	PUE	BLK	CAT	4. TOUS FO	а.	ATTY, DOCY	88	RW. HO. 9/846,	434	
PE	3		. 81	TAT	EM	EK	r		CLOSUR	E	APPLICANT John M. Be				
07 2003	₽.								<u>i</u> i	•	FILING DATE 5/2/2001	or	HOUP 2	661	
& TRADE	gren 	ENCE I	DESIG	XX	TIC	H		,	U.S. PA	TENT	DOCUMENTA				
. Ex	SUAT SUAT				•	OM3	E R		DATE		WLE	ana	mans	FLHO!	
		М												- Airio	LINIE
		М													
		ж.													
·		Ю			_										
•		Æ		_	_										
		N		-	-	-	-			<u> </u>	•				
		ᄲ		┼-	├-	-	_	-							
		H		-	 -	-		-					ļ		
		N		 -	-	 	-	-		 					
•		ж		+	1	-	1	-					 	<u> </u>	
				•		•		FO	REIGH	PATE	NT DOCUMENTS		<u> </u>	<u> </u>	
				 -				-			THE POCUMENTS	·			
	•		X		आ	Hiz	Ħ		CXIE		COUNTRY	arz	SEITE	TRANS	KOTA
		R.				-				1					
	•	H			Γ					1		—BE	EIVE	P	
-		: AX		T	1				<u> </u>	-		ΔPR	0 8 200		
		Ю		╁╴	╁╌	-	 -	-		-		Technolo	gy Center :	60	
		K	- -	╁╴	╁	-	├-	-		-	· ·				· .
		·	<u> </u>	1_			<u></u>			<u> </u>					
		OTH			A	RT	ıl) ˈ	ıcl	uding A	utho	r, Tille, Date, Pertin	iont Pa	gos, Etc	>.)	• • •
			Ou	Hie Wali	era itv	rch -of	ica -Se	ally	y-Organi ice Supp	zed,	Multihop Mobile Wird by Ram Ramanathan	eless No	etworks :	for	
		AA.									idge, Mass. 1995	and Mar	tha Steel	istrup	;
		·] "I)yn:	ami	C M	lult	tip	oint Vir	tual	Cimmit C	- A: - m	. 661		
		44							Wireles s. 1995	s Net	works", by Martha E	. Steen	strup; B	BN Tec	h.,
•		T,						•							
-		~							·						
	EXAL	INSER :	·								DATE CONDIDENCE	~			

sheet 10 of 11

EASS	ጋ	•	locti	φç ⁿ `			5.		4					
ENSON	F PAT								ATTY, DOC:	TIO.	SE	RIVL HO.		
- 6		FHIR	AND) PU	BLX	CAT	TCHUB FOR	₹' [43941		_	9/846,4	134	
2000 E	XXXII			WTK WEN		SIC	CLOSURE		APPLICANT					
ב די	\n.	io . Isterrei			-		4		John M. Belc	ea				•
Ē			4 70	ect ()	Dec) (40	νε γ)	•	FILING DATE			HOUP.		
POT EPU	ENCE I	JE C.W.	VAT	····				<u>-</u>	5/2/2001	·····		2661		
	1		nex i				U.S. PAT	ENT	DOCUMENTS					
KUM KUM		•••				1			-				FLHO	MIE
BCIFL		- m		TX	3 23 1	_	DATE		KHE		ans	ama	F APPRO	
	<u> </u>					_			·					
	<i>I</i> 8		-	- -	-									
	X			- -										
	(A								•					
	Æ			- -	-									
·	<u>,</u>		-		-						RECE	IVED		٠.
	ᄲ		\vdash	- -	-	-					ADD A	8-2003-		
 -	H				+	-						8 2003	<u> </u>	
	N.			- -	╁	-				Tec	chnology	Center 260	<u> </u>	
	ж			_	+	-				 }	-	<u> </u>	}	
					<u> </u>	FO	REIGN F	ATE	NT DOCUMEN			1]	
٠.									TO DOGINE!		•		77117	
•		m		HH	æ		CAJE -		COLXITAY		arz	SELLES	DAL T	MILK
	A		П		1	_							YES	CH
<u> </u>	 	- -		_ _	-	<u> </u>					•			
	H									1				
•	H												1	
	Ю			T	T							1	1	-
-	H			_	1	 						-	-	
	OTI	IEB	ب	—↓_ ^ ¤¬		<u>ا</u> م	udlac A				·····	1	<u></u>	
						101	ading A	umo	r, Tillo, Dato, P	orun	ent Pa	gos, Et	3.)	•
	AA.	by	Zhe	ısıo enyu	n-A' Tai	voi. ng	dance Tra and J.J.	ansmi Garc	ssion Schedulir ia-Luna-Aceves,	g for	Ad-Ho	c Networ	ks",	
		Sa	nta	Cru	z, (Cal	if., 199	7.	zu-Edra-Aceves,	OIIIV	ersity	or carr	rornia	1
		"Q	os i	Netw	ork:	ing	with Ada	aptiv	e Link Control	and 1	Pactica] Multi-		
,	и				<u> </u>	···	c radios	, Dy	George Vardaka	ıs, et	al., 🤈	Communic	ations	3
		sy	scer	us D	1V.	or	Raytheor	n Sys	tems Co., San D	iego,	Calif	.; 1997.		
											· · · · · · · · · · · · · · · · · · ·			
	AT.	- -												·
	1	1 1												